

## **AEG Functions and ICA**



# **KANSAS CITY AIRCRAFT EVALUATION GROUP**

**DOT BUILDING  
901 LOCUST, ROOM 332  
KANSAS CITY, MO 64106**

## **WHO ARE WE?**

- **DOUG EDWARDS**  
**ACTING MANAGER**
- **GEORGINNA BLAKESLEY**  
**ADMINISTRATIVE OFFICER**

## **AEG Functions and ICA**

### **WHO ARE WE?**

#### **OPERATIONS**

- **DOUG EDWARDS**
- **FRED BEEMAN**
- **ROMAN BUETTNER**



### **WHO ARE WE?**

#### **AIRWORTHINESS**

##### **MAINTENANCE**

- **MIKE ALQUIST**
- **RICHARD (DICK) CODDINGTON**

##### **AVIONICS**

- **GARY BENSON**



## **AEG Functions and ICA**

### **HISTORY**

- **1982 - ORDER 8000.51 ESTABLISHED FOUR AIRCRAFT CERTIFICATION DIRECTORATES**
- **AUTHORIZED ESTABLISHING THE AIRCRAFT EVALUATION GROUPS**

### **HISTORY**

- **1984 - ORDER 8430.21 CREATES THE AIRCRAFT EVALUATION GROUPS**
- **IN REGIONS WITH DIRECTORATES**
- **PROVIDE AGENCY GUIDANCE REGARDING OPERATIONAL ACCEPTABILITY OF NEW AND MODIFIED AIRCRAFT**

## **AEG Functions and ICA**

### **FLIGHT STANDARDS AIRCRAFT CERTIFICATION RESPONSIBILITIES?**

- **PROVIDE AN OPERATIONAL VIEWPOINT  
DURING AIRCRAFT CERTIFICATION**
  - **INFORM MANUFACTURERS OF OPERATING  
RULE REQUIREMENTS AS NEEDED**
  - **CONSULT WITH AIRCRAFT CERTIFICATION  
PERSONNEL**

### **AEG LOCATIONS**



## **AEG Functions and ICA**

### **SEATTLE**

- **TRANSPORT DIRECTORATE**

- **BOEING**
- **AIRBUS**
- **DORNIERS**
- **EMBRAERS**
- **FALCONS**



### **LONG BEACH**

- **TRANSPORT DIRECTORATE**

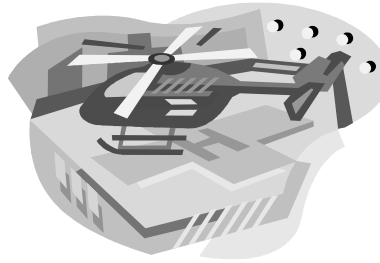
- **BOEING**
- **GULFSTREAM**
- **BOMBARDIER (CHALLENGER, RJ'S)**
- **LOCKHEED**



## **AEG Functions and ICA**

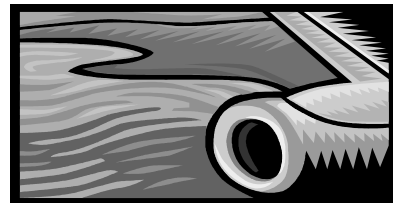
### **FORT WORTH**

- **ROTORCRAFT DIRECTORATE**
  - **HELICOPTERS**
  - **POWERED LIFT**



### **BOSTON**

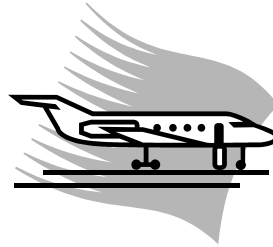
- **ENGINE AND PROPELLER DIRECTORATE**
  - **ENGINE AND PROPELLERS**



## **AEG Functions and ICA**

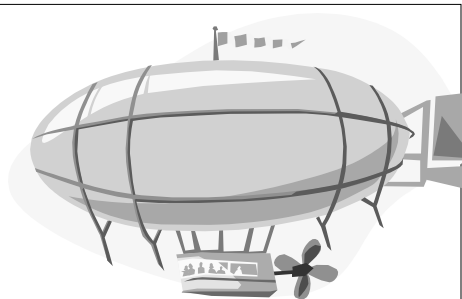
### **KANSAS CITY**

- **SMALL AIRPLANE DIRECTORATE**
- **ALL PART 23 AIRCRAFT**
- **SOME PART 25 AIRCRAFT**
  - CITATIONS
  - BEECHJETS/RAYTHEON
  - SABRES
  - ISRAELI AIRCRAFT
  - LEARJET



### **KANSAS CITY**

- **GLIDERS**
- **AIRSHIPS**
- **BALLOONS**



## **AEG Functions and ICA**

### **AEG FUNCTIONS**



- **FLIGHT STANDARDIZATION  
BOARDS/TYPE RATINGS & CREW  
QUALIFICATIONS/OPERATIONAL  
SUITABILITY (FSB)**
- **FLIGHT OPERATIONS EVALUATION  
BOARDS/MASTER MINIMUM  
EQUIPMENT LISTS (FOEB)**

### **AEG FUNCTIONS**

- **INSTRUCTIONS FOR CONTINUED  
AIRWORTHINESS (ICAs)**
- **MAINTENANCE REVIEW BOARDS (MRB)**
- **ADs**
- **ISSUE PAPERS**
- **FLIGHT MANUALS AND SUPPLEMENTS**



## **AEG Functions and ICA**

### **AEG FUNCTIONS**

- **DESIGNATED ALTERATION STATIONS**
  - Order 8100.9
  - Organization Management Team
- **PSP/PSCP**

### **INSTRUCTIONS FOR CONTINUED AIRWORTHINESS (ICA)**

- **REVIEWED FOR:**
  - **COMPLIANCE WITH CERT BASIS**
    - FAR 21.50, 23.1529, 25.1529
  - **COMPLIANCE WITH THE APPLICABLE APPENDIX**
    - 23.1529, APPX. G
    - 25.1529, APPX. H

## **AEG Functions and ICA**

### **GUIDANCE FOR ICA'S**

- **FAA ORDER 8110.50 DATED 10/20/2003**
- **CLARIFIES THAT ICA(s) ARE REQUIRED FOR ALL DESIGN APPROVALS APPLIED FOR AFTER JANUARY 28, 1981, PER CFR 14 §21.50 (b)**

### **GUIDANCE FOR ICA'S**

- **DOES NOT REQUIRE ICA(s) FOR PREVIOUSLY APPROVED PROJECTS**
- **NEED ONLY ADDRESS DESIGN CHANGE FOR WHICH APPLICATION IS MADE**
- ***ASSESSMENT***

## **AEG Functions and ICA**

### **GUIDANCE FOR ICA'S**

- **DRAFT ORDER 8110.ICA**  
**“INSTRUCTIONS FOR**  
**CONTINUED AIRWORTHINESS**  
**RESPONSIBILITIES,**  
**REQUIREMENTS, AND**  
**CONTENTS”**
- **AIR-140**
- **SEPTEMBER '04**

### **ICA CHECKLIST**

- **APPENDIX G REQUIREMENTS**  
**PART 23**
- **APPENDIX H REQUIREMENTS**  
**PART 25**
- **EACH PARAGRAPH ANNOTATED**
- **LOCATION IN MANUAL**

## **AEG Functions and ICA**

### **STC ICA PROBLEMS**

- **PROGRAM SHOWING HOW CHANGES TO THE ICA MADE BY THE APPLICANT OR BY THE MANUFACTURER OF PRODUCTS AND APPLIANCES INSTALLED ON THE AIRPLANE WILL BE DISTRIBUTED.**

### **STC ICA PROBLEMS**

- **ICA IN THE FORM OF A MANUAL OR MANUALS**
- **ICA IN A PRATICAL ARRANGEMENT**
- **REFERENCE TO DRAWING LISTS AND OTHER REPORTS THAT ARE PART OF THE STC DATA PACKAGE. (DATA NOT NORMALLY AVAILABLE TO MAINTENANCE PERSONEL)**

## **AEG Functions and ICA**

### **STC ICA PROBLEMS**

- **BASIC CONTROL AND OPERATING INFORMATION DESCRIBING HOW THE AIRCRAFT COMPONENTS AND SYSTEMS ARE CONTROLLED AND HOW THEY ARE OPERATED, INCLUDING ANY SPECIAL PROCEDURE AND LIMITATIONS.**

### **STC ICA PROBLEMS**

- **NO DIAGRAMS OR DESCRIPTION OF THE SYSTEM FOR LOCATION OF COMPONENTS.**
- **ACCESS PANEL LOCATIONS ARE NOT ILLUSTRATED FOR THE PURPOSE OF INSPECTION , TROUBLE SHOOTING, AND COMPONENT REPLACEMENT.**

## **AEG Functions and ICA**

### **STC ICA PROBLEMS**

- **STC ICA INCOMPLETE IN SEVERAL AREAS SUCH AS CHANGES TO THE WIRING DIAGRAMS AND CIRCUIT BREAKER LOCATIONS.**
- **STC ICA DOES NOT INCLUDE SCHEDULING INFO FOR THE RECOMMENDED PERIODS TO CLEAN, INSPECT, ADJUST, TEST, AND LUBRICATE.**

### **STC ICA PROBLEMS**

- **“THE AIRWORTHINESS LIMITATIONS SECTION IS FAA APPROVED AND SPECIFIES MAINTENANCE REQUIRED UNDER §§ 43.16 AND 91.403 OF THE FEDERAL AVIATION REGULATIONS UNLESS AN ALTERNATIVE PROGRAM HAS BEEN FAA APPROVED”**

## **AEG Functions and ICA**

### **STC ICA PROBLEMS**

- **WHEN THE STC HAS NO AIRWORTHINESS LIMITATIONS, THAT SECTION OF THE ICA SHOULD CONTAIN A STATEMENT INDICATING:-  
“THERE ARE NO AIRWORTHINESS LIMITATIONS ASSOCIATED WITH THIS STC”**

### **STC ICA PROBLEMS**

- **ICA SHOULD BE A STAND ALONE DOCUMENT.**
- **ANY REFERENCED MATERIAL AND DOCUMENTS MUST BE SUBMITTED WITH THE ICA DOCUMENT FOR REVIEW.**

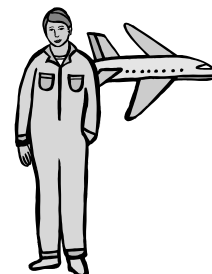
## **AEG Functions and ICA**

### **PART 43 APPENDIX D**

- **COMPARE ICA TO APPENDIX D LIST**
- **SCOPE AND DETAIL OF ITEMS TO BE INCLUDED IN ANNUAL AND 100-HOUR INSPECTION.**
- **AS APPLICABLE TO A PARTICULAR AIRCRAFT**
- **EACH PERSON SHALL INSPECT EACH INSTALLED MISC. ITEM THAT IS NOT COVERED BY THIS LIST...**

### **ICA**

- **COMPLETENESS AND USABILITY**
  - **CAN AN AVERAGE MECHANIC, WITH AVERAGE SKILLS AND ABILITIES, MAINTAIN THE AIRPLANE TO AN “APPROVED FOR RETURN TO SERVICE” CONDITION**





## **AEG Functions and ICA**

### **CONTACT**

**MKC-AEG  
DOT BUILDING  
901 LOCUST, ROOM 332  
KANSAS CITY, MO 64106**

**(816) 329-3233 (MAIN)**

**(816) 329-3241 (FAX)**



**QUESTIONS ???**